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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/771,098	02/03/2004	Gaetan Leclerc	2751-1A	2046
75	90 03/04/2005		EXAM	INER
Eric Fincham			LERNER, AV	/RAHAM H
316 Knowlton F	Road			
Lac Brome, QC	C J0E 1V0		ART UNIT	PAPER NUMBER
CANADA			3611	-
			DATE MAIL ED: 03/04/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	··	Application No.	Applicant(s)
		10/771,098	LECLERC, GAETAN
1	Office Action Summary	Examiner	Art Unit
		Avraham Lerner	3611
Period	The MAILING DATE of this communication app for Reply	pears on the cover sheet w	vith the correspondence address
THE - Ex aft - If t - If n - Fa	HORTENED STATUTORY PERIOD FOR REPLE MAILING DATE OF THIS COMMUNICATION. tensions of time may be available under the provisions of 37 CFR 1.1 er SIX (6) MONTHS from the mailing date of this communication. The period for reply specified above is less than thirty (30) days, a replace of the period for reply is specified above, the maximum statutory period liture to reply within the set or extended period for reply will, by statute y reply received by the Office later than three months after the mailing treed patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a by within the statutory minimum of thi will apply and will expire SIX (6) MO a, cause the application to become A	reply be timely filed  irty (30) days will be considered timely.  NTHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).
Status			
1)⊠	Responsive to communication(s) filed on 17 D	<u> Pecember 2004</u> .	
2a)⊠	This action is FINAL. 2b) ☐ This	s action is non-final.	
3)[	Since this application is in condition for allowa closed in accordance with the practice under <i>t</i>		
Dispos	ition of Claims		
5)□ 6)⊠ 7)□	Claim(s) 1.4,6 and 7 is/are pending in the app 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 1.4,6 and 7 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.	
Applica	ition Papers		
_	The specification is objected to by the Examine The drawing(s) filed on 03 February 2004 is/an Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Example 1.	e: a)⊠ accepted or b)□ drawing(s) be held in abeya tion is required if the drawin	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d)
Priority	under 35 U.S.C. § 119		
	Acknowledgment is made of a claim for foreign    All b		§ 119(a)-(d) or (f).
	2. Certified copies of the priority document		Application No.

# Attachment(s) 1) Notice of

1) [	МΝ	lotice	of I	References	Cited (	(PTO-	892)
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3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date \_\_\_\_\_.

4) 📖	Interview Summary (PTO-413)
	Paper No(s)/Mail Date
5) 🔲	Notice of Informal Patent Application (PTO-152)
6)	Other:

3. Copies of the certified copies of the priority documents have been received in this National Stage

application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

<sup>2)</sup> Notice of Draftsperson's Patent Drawing Review (PTO-948)

Application/Control Number: 10/771,098

Art Unit: 3611

#### **DETAILED ACTION**

1. The amendment filed December 17, 2004 is accepted and has been entered.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 4, 6, and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moll et al. (U.S. Patent No. 3,860,081) in view of Long et al. (U.S. Patent No. 6,367,570).

Moll et al. discloses a tractor trailer having essentially all elements as claimed, including a tractor unit and a trailer unit, the tractor unit having an internal combustion engine (1), the trailer unit having a plurality of axles each having wheels thereon, electric drive means comprising a plurality of electric motors (12,13, 16, 17) for driving the wheels (see e.g. Fig. 1), a generator (2), and a control system for operating the means for driving the wheels. Moll et al. fails to explicitly disclose batteries operatively connected to the electric drive means, the batteries being mounted on the tractor unit and charged by the generator, and regenerative braking.

Long et al. discloses that it is known in the art to provide a hybrid vehicle with batteries (400) operatively connected to electric drive means as is old and well known in the hybrid vehicle art, and to provide the vehicle with regenerative braking.

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It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the vehicle of Moll et al. with the rechargeable batteries and regenerative braking of Long et al. in order to improve the operability and efficiency of the vehicle as a whole. Although the vehicle of Moll et al. likely includes batteries "operatively connected" to the electric drive means, an assembly as taught by Long et al. to provide the motors power directly from batteries would provide, as taught in column 4, lines 59-60, "enhanced lean running for higher efficiency". Note that it further would have been obvious to mount the batteries on the tractor portion of the vehicle of Moll et al. because it supports all of the power components and electrical power is sent via line 9 to the trailer. Regenerative braking, taught specifically by Long et al. is also old and well known in the hybrid/electric vehicle art as a common means to conserve battery power, and therefore the explicit use of such would have been obvious to one of ordinary skill.

### Response to Arguments

4. Applicant's arguments with respect to claim 1 have been considered but are most in view of the new grounds of rejection. It is also noted that applicant has specifically disclosed that the location of the batteries is not critical and could be on either the tractor or trailer (see specification page 4).

#### Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Avraham Lerner whose telephone number is (703) 308-0423. The examiner can normally be reached on M-F (8:15-5:45) first Wednesday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lesley Morris can be reached on (703) 308-0629. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AVRAHAM LERNER PRIMARY EXAMINER

March 2, 2005